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L3: Entry 11 of 11   File: DWPI   Aug 31, 1999

DERWENT-ACC-NO: 1999-547284
DERWENT-WEEK: 199946
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TITLE: Flow control method for high-speed data forwarding between LAN - involves transmitting data equivalent to amount of data informed from receiving side LAN to transmission side LAN when notice of operation start of flow control is received

PATENT-ASSIGNEE:
ASSIGNEE   CODE

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PRIORITY-DATA: 1998JP-0040080 (February 23, 1998)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
☐ JP 11239163 A	August 31, 1999		008	H04L012/46

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 11239163A	February 23, 1998	1998JP-0040080	

INT-CL (IPC): H04L 12/28; H04L 12/46; H04L 12/66; H04Q 3/00

ABSTRACTED-PUB-NO: JP 11239163A
BASIC-ABSTRACT:

NOVELTY - Data equivalent to the amount of data informed from a receiving side LAN are transmitted when the notice of operation start of flow control is received. The flow control of data is not performed when the amount of occupancy buffers, whose collection condition of data received by the receiving side LAN from a broad area network, is below a threshold value. DETAILED DESCRIPTION - Collection condition of data is monitored with the amount of occupancy buffers when data forwarding is performed between a high-speed LAN and the broad area network. The flow control is informed to a transmission side LAN when the amount of occupancy buffers exceeds a threshold value. A traffic is not controlled to the transmission side LAN when there is no notice of flow control, and when notice of releasing flow control is received from the receiving side LAN. The amount of empty buffers is informed to the transmission side LAN when data forwarding to an end node at the time of flow control causes an idle from the receiving side LAN to the buffers. An INDEPENDENT CLAIM is also included for a switch used in high-speed forwarding of data through broad area network.

USE - For high-speed data forwarding between LAN e.g. giga bit ethernet, asynchronous transfer mode (ATM) network, broad area network, such as private line with maximum transmission rate of 150

Mbps of synchronous transfer mode (STM1).

ADVANTAGE - Increases receiving capability of end node. Reduces load of processor since flow control is not performed when stay of data has not occurred within LAN. Allows transmission of data equivalent to the amount of data informed to the transmission side LAN even when stay of data occurs in LAN, thus high-speed communication is enabled. DESCRIPTION OF DRAWING(S) - The figure shows the diagram of a network to which flow control method for high-speed data is applied.

CHOSEN-DRAWING: Dwg.1/7

TITLE-TERMS: FLOW CONTROL METHOD HIGH SPEED DATA FORWARDING LAN TRANSMIT DATA EQUIVALENT AMOUNT DATA INFORMATION RECEIVE SIDE LAN TRANSMISSION SIDE LAN NOTICE OPERATE START FLOW CONTROL RECEIVE

DERWENT-CLASS: W01

EPI-CODES: W01-A06B5; W01-A06G3; W01-B;

SECONDARY-ACC-NO:
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